| POSITIZON                 | INITIALS | ID NO.  | DATE     |  |  |  |  |  |
|---------------------------|----------|---------|----------|--|--|--|--|--|
| FEE DETERMINATION         |          |         |          |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       |          |         |          |  |  |  |  |  |
| FORMALITY REVIEW          | 137      | 763-287 | 04-27-01 |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW | Rn       | 78/     | 18.06-01 |  |  |  |  |  |
|                           |          |         |          |  |  |  |  |  |

## **INDEX OF CLAIMS**

| Rejected                                       | N Non-elected |
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| = Allowed                                      | IInterference |
| <ul> <li>(Through numeral) Canceled</li> </ul> | A Appeal      |
| ÷ Restricted                                   | O Objected    |

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|-------------|-----------|--|--|----------|----------|----------|--|--|----------------|----------------|--------------|-------|----------|----------|----------|--------------|---------------|--------------|----------|----------|----------|--|------------|------------|---|-----------------------|--------------------|-----------|---------|-----------|-----------------------|-----------|-----------|-----------|-----------------|----------|----------|
| v           |           |  |  |          |          | ÷        |  |  |                | •••••          |              |       | F        | Resti    | icte     | d            |               |              |          | 0        |          |  |            |            |   |                       | . Obj              |           |         |           |                       |           |           |           |                 |          |          |
| _           | aim       | 7  |  |          |          | Da       | te   |  |                |                |              | ]     | Cla      | im       |          |              |               | _            | Dat      | е        |          |  |            |            | ] | Cta                   | im                 |           |         | _         |                       | Dat       | æ         | _         | _               |          |          |
| Final       | Ortothal  | 122  |  |          |          |          |  |  |                |                |              |       | Final    | Original |          |              |               |              |          |          |          |  |            |            |   | Final                 | Original           |           |         |           |                       |           |           |           |                 |          |          |
| ,  _        | C         | ¥,   |  | <u> </u> | L        | ļ.,      | <u> </u> _                                       | ┡  | L              | L              | L            |       |          | 51       | 4        | $\downarrow$ | 4             | $\dashv$     | _        |          |          | L  | <u> </u> _ | ╀          | ļ | 느                     | 101                | 4         | 4       | 4         | 4                     | 4         | Ш         | Щ         |                 |          |          |
|             |           | 7<br>7   |  | L        | $\vdash$ | L        | ┞  |  | ┝              | ┢              | ┝            |       | _        | 52<br>53 | +        | +            | +             | +            | $\dashv$ |          |          | H  | <u> </u>   | ╀╌         | ┨ | ⊢                     | 102<br>103         | 4         | +       | +         | 4                     | $\dashv$  |           | Щ         | L               | L        | L        |
| <u> </u>    | 4         |  | -  | _        | <u> </u> | -        | ⊢  | ┢  | ┝              | ┢              | ⊨            |       | $\vdash$ | 54       | +        | +            | +             | +            |          | -        |          | ├  | ⊢          | ╀          | ┨ | ⊢                     | 104                | ╬         | +       | +         | +                     | -         | $\dashv$  | Н         | L               | ├-       | ╀        |
| <b>}</b>  - | 5         |  | ╁╴   | -        | -        |          | ┢  | $\vdash$   | ┢              | $\vdash$       | ⊢            |       |          | 55       | $\dashv$ | +            | +             | +            | ┪        | -        | -        | -  | Н          | H          | 1 | ⊢                     | 105                | +         | ┰       | +         | 十                     | ┪         | $\dashv$  | Н         | $\vdash$        | ŀ-       | H        |
| -           | 6         |  | t  |          |          | _        | 1  | T  |                | H              | H            | 1     |          | 56       | 十        | $\dagger$    | $\dagger$     | す            |          |          |          | <del>                                     </del> | T          | T          | 1 |                       | 106                | T         | +       | 十         | 寸                     | ┪         |           |           | H               | 一        | H        |
|             | 7         |  |  |          |          | Г        | Г  | Т  | Г              | Т              | Г            | 1     |          | 57       | $\top$   | 1            | 1             | 寸            |          |          |          |  |            | Γ          |   |                       | 107                | T         | 1       | T         | ヿ                     | ヿ         |           |           | Г               | ┌        | ┢        |
|             | 8         | 17   |  |          |          |          |  |  |                |                |              | ]     |          | 58       |          |              |               | $\Box$       |          |          |          |  |            |            | ] |                       | 108                | 1         |         | I         | I                     |           |           |           | Г               |          | Г        |
|             | 9         |  | $oxed{\Box}$                                     |          |          |          |  |  |                |                |              |       |          | 59       | $\perp$  | $\perp$      | 1             | $\perp$      |          |          |          |  | L          | L          | ] | $\overline{}$         | 109                | 1         | $\perp$ | Ţ         | $\Box$                | $\Box$    |           |           |                 |          | Γ        |
| L           | 10        |  | <u>_</u>   | L        |          | <u> </u> | Ļ  | $oxed{igspace}$                                  | L              | L              | L            |       |          | 60       | $\bot$   | 4            | 4             | 4            | _        |          |          | L  | L-         | <u> </u> _ | 1 | $oxed{oxed}$          | 110                | 4         | $\bot$  | 4         | $\downarrow$          | _         | Ц         |           | $\vdash$        | L        |          |
| -           | 11        | 17.  | 4  | <u> </u> | Щ        | <u> </u> | $\vdash$   | $\vdash$   | _              | $\vdash$       | _            |       |          | 61       | - -      | 4            | 4             | 4            |          | 4        |          | <u> </u>   | <u> </u>   | ⊢          | - |                       | 111                | 1         | 4       | 4         | 4                     | 4         | _         | Щ         | <b> </b>        | ┡        | ╀        |
| <u>.</u>  - | 12<br>13  | _  | 4  | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$   | $\vdash$   | $\vdash$       | <del> </del>   | <del> </del> |       | Щ        | 62<br>63 |          | +            | +             | +            | -        | -        |          | <u> </u>   | -          | ┢          | 1 |                       | 112<br>113         | +         | +       | +         | +                     | $\dashv$  | $\dashv$  |           | $\vdash$        | -        | ╀        |
| <u> </u>    | 14        | _  | -  | $\vdash$ | Н        | H        | ⊢  | ╀  | ├              |                |              |       | -        | 64       |          | +            | +             | +            | -        | $\dashv$ | -        | -  | ┝          | ⊢          | ┨ | -                     | 114                | +         | +       | +         | $\dashv$              | $\dashv$  | -         | -         | Н               | ⊢        | ╀        |
| $\vdash$    | 15        |  | }  | $\vdash$ | $\vdash$ | <u> </u> | ⊢  | ├  | -              | -              |              |       |          | 65       | +        | +            | +             | +            | -        | ┪        |          | -  | -          | ├-         | ł | -                     | 115                | ┿         | ╌       | +         | +                     | $\dashv$  | $\dashv$  | $\dashv$  |                 | $\vdash$ | ⊢        |
| $\vdash$    | 16        |  | $\vdash$   | Н        | Н        | -        | ╁  | ╁╌   | <del>  -</del> | ├              | 1            |       |          | 66       | -        | +            | +             | +            | -        | -        | _        | $\vdash$   | Н          | ╁          | 1 | -                     | 116                | $^{+}$    | +       | +         | $\dashv$              | ᅥ         | $\dashv$  |           | H               | -        | ┢        |
| -           |           | 1  |  |          | -        | _        | -  | <del>                                     </del> | H              | T              |              |       |          | 67       | $\neg$   | +            | $\dagger$     | _            | ┪        |          |          |  | T          | T          | 1 | _                     | 117                | +         | _       | $\dagger$ | -+                    | 7         | $\exists$ | $\exists$ | П               | Г        | t        |
| $\vdash$    | (18       | $\forall$  | 1  | _        |          | $\vdash$ | Т  | <del>                                     </del> | T              | T              |              |       |          | 68       | T        | $\dagger$    | Ť             | 十            | 寸        |          |          |  |            | T          | 1 | -                     | 118                | Ť         | 1       | Ť         | 十                     | ┪         | $\neg$    |           |                 | Г        | T        |
|             | (19       | <b>3</b> √                                       |  |          |          |          | <del>                                     </del> | <b> </b>   | T              | 丅              | i            | 1     |          | 69       | $\neg$   | 7            | T             | $\exists$    | ヿ        |          |          |  |            |            | 1 | Г                     | 119                | 1         | T       | T         | T                     | コ         |           |           | $\Box$          | Γ        | Г        |
|             | 20        | 7  | $\Box$   | Г        |          |          |  | Γ  |                | Ī              | Ī            | 1     |          | 70       | Т        | 7            | 1             | T            |          |          |          |  | Г          |            | 1 | Г                     | 120                | T         | Т       | Т         | T                     | ╗         | $\neg$    | $\Box$    | П               | Г        | Г        |
|             | 21        |  | 1  |          |          |          |  | 1  |                |                |              |       |          | 71       |          |              |               | $\Box$       |          |          |          |  |            | Τ          | ] |                       | 121                | 1         | $\top$  |           | $\Box$                |           |           |           |                 |          |          |
| E           | 22        | V  |  |          |          |          |  |  |                |                |              |       |          | 72       | $\perp$  | floor        | ightharpoonup | $\perp$      |          |          |          |  |            |            | ] |                       | 122                | I         | $\perp$ | I         | $\operatorname{\Box}$ | $\Box$    | $\Box$    |           |                 |          |          |
| L           | 23        | V  | <u> </u>   |          |          |          | _  | L  | <u> </u>       | Ļ              | L            |       |          | 73       | _        | 4            | 4             | _↓           | _        |          |          |  | <u>_</u>   | <u> </u>   | 1 | -                     | 123                | 1         |         | 1         | 4                     | $\dashv$  | _         | _         | Ш               | L        | L.       |
| <u> </u>    | 34        | V  | ╙  | Щ        | Щ        | _        | <u> </u>   | ╙  | L              | Ļ              | <u> </u>     |       | _        | 74       | -        | 4            | 4             | 4            | _        |          |          |  | L          | L          |   | $\vdash$              | 124                | 4         | $\perp$ | 4         | $\dashv$              | 4         | 4         | ᅴ         |                 | _        | L        |
| <u> </u>    | 25        | ₩.   |  | Щ        |          |          | lacksquare                                       | ┞  | L              | L              | <u> </u>     |       | _        | 75       |          | 4            | 4             | -            | 4        | _        |          | _  | ļ          | <u> </u>   | ļ |                       | 125                | 4         |         | +         | +                     | $\dashv$  | -1        | _         |                 | L        | ⊢        |
| $\vdash$    | 293<br>27 | ⊢  | $\vdash$   | Н        |          | _        | _  |  | H              | ⊢              |              |       |          | 76<br>77 | +        | +            | +             | +            | 4        | -        | _        | _  | -          | ┝          | ł | $\overline{}$         | 126                | +         | +       | +         | +                     | +         |           | $\dashv$  | Н               | ┝        | ╁        |
| $\vdash$    | 28        | ⊢  | ┢  | Н        |          | _        | ⊢  | ┢  | ⊢              | ⊢              |              |       |          | 78       |          | ╁            | ╁             | +            | -        | ᅱ        | -        | _  | ┝          | ┝          | ł |                       | 127<br>128         | ╬         | +       | +         | ╁                     | -         | $\dashv$  | $\dashv$  | Н               | ┝        | ╁        |
| -           | 29        | ⊢  | ├  | -        |          |          | -  | ├  | $\vdash$       | ┝              |              |       |          | 79       |          | ╬            | ╁             | +            | ᅱ        |          |          |  | ┝          | ┢          | ł | _                     | 129                | ╁         | +       | +         | +                     | ┪         | ᅱ         | $\dashv$  | Н               | -        | H        |
| ┝           | 30        |  | ┢  | H        |          | _        | ┝  | ⊢  | -              | ╁              |              |       | $\neg$   | 80       | +        | ╅            | +             | +            |          | -        |          |  | ├-         | ┢          | 1 | _                     | 130                | ╁         | +       | +         | 十                     | 7         | 一         | $\dashv$  | П               | 一        | H        |
| -           | 31        | H  | -  | Н        |          |          |  | -  | -              |                |              |       | $\dashv$ | 81       | $\dashv$ | +            | ╅             | +            | ┪        |          |          |  | ┢          | T          | 1 | -                     | 131                | ╅         | $\top$  | 十         | 十                     | 7         | ╛         | $\dashv$  | П               | Г        | T        |
|             | 32        | Π  | Г  | П        | П        | _        |  | 1-   | ⇈              | Τ              |              |       |          | 82       |          | $\top$       | 1             | 1            | 7        |          |          |  |            | Г          | 1 |                       | 132                | _         | $\top$  | 十         | $\top$                |           |           |           |                 |          | Γ        |
|             | 33        |  |  | П        |          |          |  |  |                |                |              |       |          | 83       | _        | Ţ            | _             | _†           |          |          |          |  |            |            | ] |                       | 133                | 1         | 丁       | 丁         |                       | ╛         |           |           |                 |          |          |
|             | 34        | $\Box$   |  |          |          |          |  |  |                |                |              |       | 1        | 84       |          |              | T             | $\perp$      | $\Box$   |          |          |  | 匚          |            | ] | _                     | 134                | I         | 工       | Ţ         | Ī                     | $ \bot $  | ╝         |           | $\Box$          | L        | L        |
| L           | 35        | L  | $\Box$   | Щ        | Ш        |          | Ľ  | L  | Ĺ              | $\Box$         |              |       |          | 85       |          | 1            | 1             | 4            |          |          |          | Ш  |            |            |   |                       | 135                |           | 1       | 1         | _                     | 4         | _         | _         | Щ               | L        | 1        |
| · _         | 36        | $\vdash$   | <u> </u>   | Щ        | Щ        |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$              | $\vdash$   | L              | L              |              |       | _        | 86       |          | 4            | _ _           | 4            | _        | 4        | _        | Щ  | L          | L          | ļ |                       | 136                | 1         | -ļ-     | 4         | 4                     | 4         | 4         | 4         | $\vdash \dashv$ | $\vdash$ | ⊢        |
| $\vdash$    | 37        | 1  |  | Н        |          |          | $\vdash$   |  | L              | $\vdash$       |              |       | _        | 87       |          | 4            | 4             | 4            | _        | 4        | _        |  | H          | <u> </u>   |   | -                     | 137                | +         | 4       | +         | +                     | 4         |           | 4         | Щ               | 尸        | $\vdash$ |
| $\vdash$    | 38        |  | $\vdash$   | Н        | Н        | _        | $\vdash$   | $\vdash$   | -              | <del> </del>   | $\vdash$     |       |          | 88<br>89 | - -      | +            | +             | +            |          | $\dashv$ | 4        | Н  | Н          | -          | ł | -                     | 138                | +         |         | +         | +                     |           |           | -         | Н               | -        | $\vdash$ |
| -           | 39<br>40  | ⊢  | $\vdash$   | $\vdash$ | Н        | _        | -  | -  | -              | -              | -            |       | $\dashv$ | 90       | +        | +            | +             | +            | $\dashv$ |          | $\dashv$ |  |            | -          | { |                       | 139<br>140         | +         | +       | +         | +                     | $\dashv$  | $\dashv$  | $\dashv$  | Н               | $\vdash$ | ╁        |
| -           | 41        | ⊢  | $\vdash$   | Н        | Н        | _        | $\vdash$   | $\vdash$   | ⊢              | -              | <u> </u>     |       | $\dashv$ | 91       | +        | +-           | +             | +            | $\dashv$ | -        | $\dashv$ | $\vdash$   | -          | -          |   |                       | 141                | +         | +       | +         | +                     | +         | $\dashv$  |           | $\vdash$        | $\vdash$ | ╁        |
| $\vdash$    | 41        | ⊢  | -  | $\vdash$ |          |          |  | -  | ⊢              | ⊢              | $\vdash$     |       |          | 91       | +        | +            | +             | +            | $\dashv$ |          |          | _  | Н          | $\vdash$   |   | _                     | 142                | +         | +       | +         | +                     | +         | $\dashv$  | $\dashv$  | $\vdash$        | $\vdash$ | ╁        |
| $\vdash$    | 43        | ┢  | $\vdash$   | ┝╌┤      |          | <u> </u> | -  | <del> -</del>                                    | $\vdash$       | $\vdash$       | $\vdash$     |       |          | 93       | +        | +            | +             | +            |          | $\dashv$ | $\dashv$ | =  | H          | $\vdash$   |   | _                     | 143                | +         | +       | +         | +                     | $\dashv$  | -+        | $\dashv$  | $\dashv$        | Т        | H        |
| $\vdash$    | 44        | -  | $\vdash$   | $\vdash$ | ┉        | _        | -  | +-   | $\vdash$       | $\vdash$       | $\vdash$     |       | -        | 94       | $\dashv$ | +            | +             | +            | -+       | $\dashv$ | $\dashv$ | $\dashv$   | Н          | ✝          |   | $\boldsymbol{\vdash}$ | 144                | +         | +       | +         | +                     | $\dashv$  | -         | 7         | П               | Г        | Г        |
| $\vdash$    | 45        | $\vdash$   | $\vdash$   | H        | H        | Ė        | $\vdash$   | $\vdash$   | -              | <del>  -</del> |              |       | $\dashv$ | 95       | +        | +            | 十             | 十            | $\dashv$ |          | -        | Н  | Н          | Т          |   |                       | 145                | +         | 十       | 十         | +                     | +         | $\dashv$  | $\dashv$  | П               | Г        | Г        |
| $\vdash$    | 46        | <del>                                     </del> |  | Н        | Н        | _        | _  | $\vdash$   | Т              | Т              | М            |       | $\dashv$ | 96       | ┪        | 十            | +             | 十            | $\dashv$ | ┪        | $\dashv$ | П  | П          | Т          | 1 | $\boldsymbol{\vdash}$ | 146                | †         | 十       | 十         | 十                     | 7         | 7         | $\neg$    | П               |          | Г        |
|             | 47        | 1  | <del>                                     </del> | М        | Н        | _        | T  | T  | Г              | Г              | П            |       |          | 97       | +        | $\top$       | $\dagger$     | $\dagger$    | 7        | _        | $\neg$   | П  | П          | Τ          | j | _                     | 147                | $\dagger$ | $\top$  | 十         | 7                     | $\dashv$  | 7         |           |                 |          |          |
|             | 48        |  |  | П        | П        |          |  |  |                |                |              |       |          | 98       | ╧        | ቋ            |               | 丁            |          |          |          |  |            |            | ] |                       | 148                | 1         |         | I         |                       | $\exists$ |           |           |                 |          | Ĺ        |
|             | 49        |  |  |          |          |          |  |  |                |                |              |       | _        | 99       | $\perp$  | I            | I             | ightharpoons | $\Box$   |          |          |  |            |            |   |                       | 149                | I         |         | I         | I                     | $\Box$    | $\Box$    | _]        | Щ               | L        | L        |
|             | 50        | Ĺ.   | <u> </u>   |          |          |          | L  | $\Box$   |                |                | $oxed{\Box}$ | l [   |          | 100      |          |              | $\perp$ L     | $\perp$      | _1       |          |          | $\Box$   | لـــا      | <u></u>    | J | L                     | 150                | $\perp$   | $\perp$ | 丄         |                       | 1         | $\sqcup$  | ┈         | لـــا           | ئے       | 1_       |

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